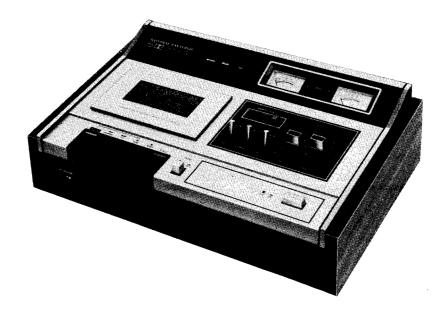
Service Manua TAPE RECORDER PANASONIC



DOLBY SYSTEM CASSETTE DECK



RS-263US MECHANISM SERIES

MODEL RS-263US

SPECIFICATIONS

Power Source:

AC: 90~109, 110~125, 200~219,

220~250 volts, 50/60 Hz

Power Consumption:

Approx. 12 W

Motor:

Electronic speed control motor

2SC1327(4) 2SC828(18) Transistors:

2SC1347(3) 2SA564(2) 2SK37(2) OA90(4) 1S1850(3) RD7A(2)

Diodes:

1S1211(6)

Operation:

Push-button controls with auto-stop

mechanism

Recording System: Erase System:

AC bias 80 kHz AC erase

Track System:

4-track, 2-channel stereo recording

and playback

Tape Speed:

1-7/8 ips.

Wow and Flutter:

Less than 0.20%

Tabe:

Cassette tape

Frequency Response:

 $30\sim13,000$ Hz (with normal tape)

30~14,000 Hz (with CrO2 ta)e)

Signal to Noise Ratio: Better than 45 dB (in normal peration)

> Better than 55 dB (in Dolby operation) 2-MIC $-70 \text{ dB } (0.3 \text{ mV})/600 -20 \text{ K}\Omega$

2-LINE $-30 \, dB \, (30 \, mV)/150 \, K\Omega$ Outputs:

2-LINE $-6 \, dB \, (500 \, mV)/load$

impedance 50K Ω over

1-HEADPHONE 8Ω

Fast Forward and

Rewind Time:

Approx. 100 seconds with C-60

cassette tape

Program Time:

1 hour stereo recording with 1-60

cassette tape

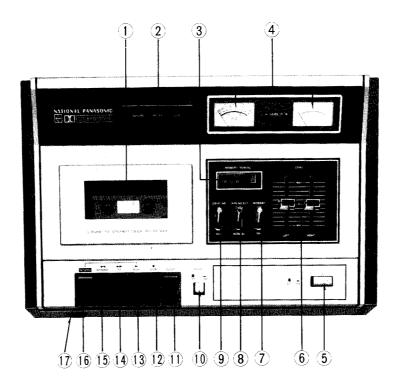
Dimensions: Weight:

Inputs:

 $14-3/4''(W) \times 4-5/8''(H) \times 9-1/2''(D)$

These specifications are subject to change in order to accommodate improvements in design.

LOCATION OF PARTS



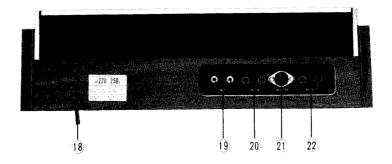


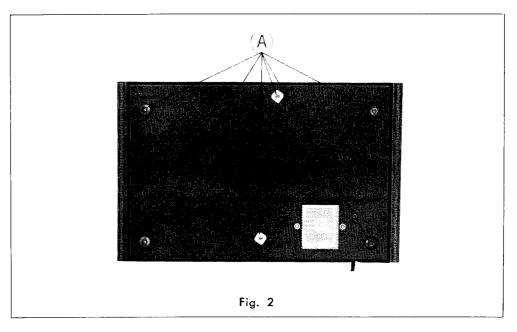
Fig. 1

- ① Cassette cover
- ② Operation indicators
- 3 Tape counter
- 4 Level meters
- ⑤ Power switch
- 6 Level adjustment controls
- Memory rewind switch
- Tape selector switch
- Dolby switch
- Pause button
- Eject button

- Stop button
- Playback button
- Fast forward button
- (5) Rewind button
- ® Record button
- Headphone jack
- ® Power cord
- Microphone jacks
- 20 Line in jacks
- Recording/playback connector
- 2 Line out jacks

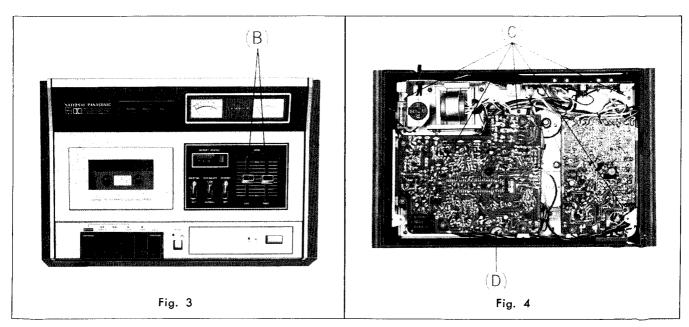
DISASSEMBLY INSTRUCTIONS

HOW TO REMOVE BOTTOM BOARD



- 1. Remove 6 bottom board holding screws (A).
- 2. Then bottom board can be removed.

HOW TO REMOVE CHASSIS



1. Pull out 2 volume knobs (B).

- 2. Remove 5 chassis holding screws (C) and 1 $\mbox{\it massis}$ holding pole (D).
- 3. Then chassis can be removed.

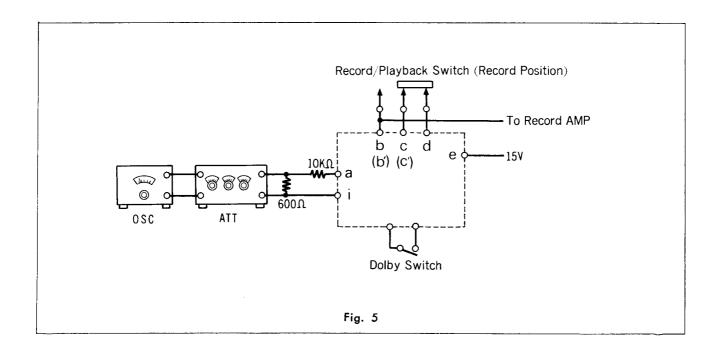
STANDARD VALUE TO TEST

	ITEM	VALUE	PARTS TO BE ADJUSTED	REMARK
1	Recording bias current.	0.55±0.1 mA	L5 (for CH1) L6 (for CH2)	Level control VR should be minimum.
2	Bias oscillation frequency.	80±5 kHz		
3	Recording level.	1 kHz MIC -73±3 dB LINE IN -30±4 dB DIN -73±4 dB	VR7 (for CH1) VR8 (for CH2)	To obtain 45 µA of recording current through the recording head. Tape select switch should be on NORMAL position. Stop the bias oscillation by unsoldering the wire (A) as shown on printed circuit board (Page 8). Level control VR should be maximum.
4	Erase current.	70 mA		
5	Recording level indicator.	0 VU on VU meter.	VR9 (for CH1) VR10 (for CH2)	At 0.5 V of Line output.
6	Playback amplifier gain.	−79±30 dB	VR3 (for CH1) VR4 (for CH2)	Level control VR should be maximum.
7	Playback equalizer.	333 Hz: 0 dB 6.3 kHz: -0.5 dB	VR1 (for CH1) VR2 (for CH2)	Playback the DIN standard tape (C-FE). If gain is not with in standard at 6.3 kHz adjust with VR1 and VR2.
8	Pressure of pressure roller.	400±50 gr		The value is indicated when the pressure roller comes off from capstan.
9	Takeup tension.	55±10 gr		Clean up the oil and dust adhring to the takeup reel table and takeup idler.
10	Detecting piece tension.	50±10 gr		

DOLBY CIRCUIT ADJUSTMENT

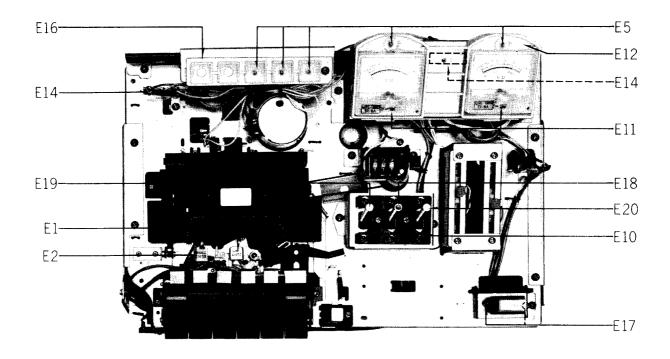
The connection is shown in Fig. 5.

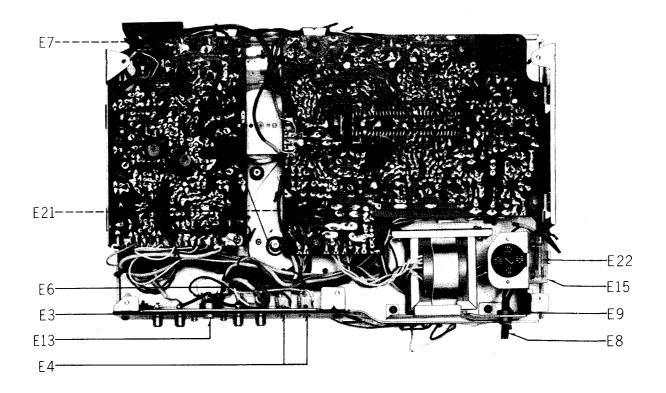
- 1. Place the set into the recording mode, set the Dolby*NR switch to OUT and supply input so that output of TPC (for CH1) and TPC' (for CH2) becomes 3 mV.
- 2. Set VR101 (for CH1) and VR103 (for CH2) to MAXIMUM (by turning them fully clockwise as seen from the reverse side of the printed circuit board).
- 3. Set the Dolby NR switch to IN.
- 4. Adjusting VR102 (for CH1) and VR104 (for CH2), make the reading of VTVM at TPb (for CH1) and TPb' (for CH2) become 10 dB greater than 3 mV (frequency: 5 kHz).
- 5. Adjusting VR101 (for CH1) and VR103 (for CH2), make the reading of VTVM at TPb (for CH1) and TPb' (for CH2) become 2 dB smaller than the value obtained through the adjustment in 4 above (frequency: 5 kHz).



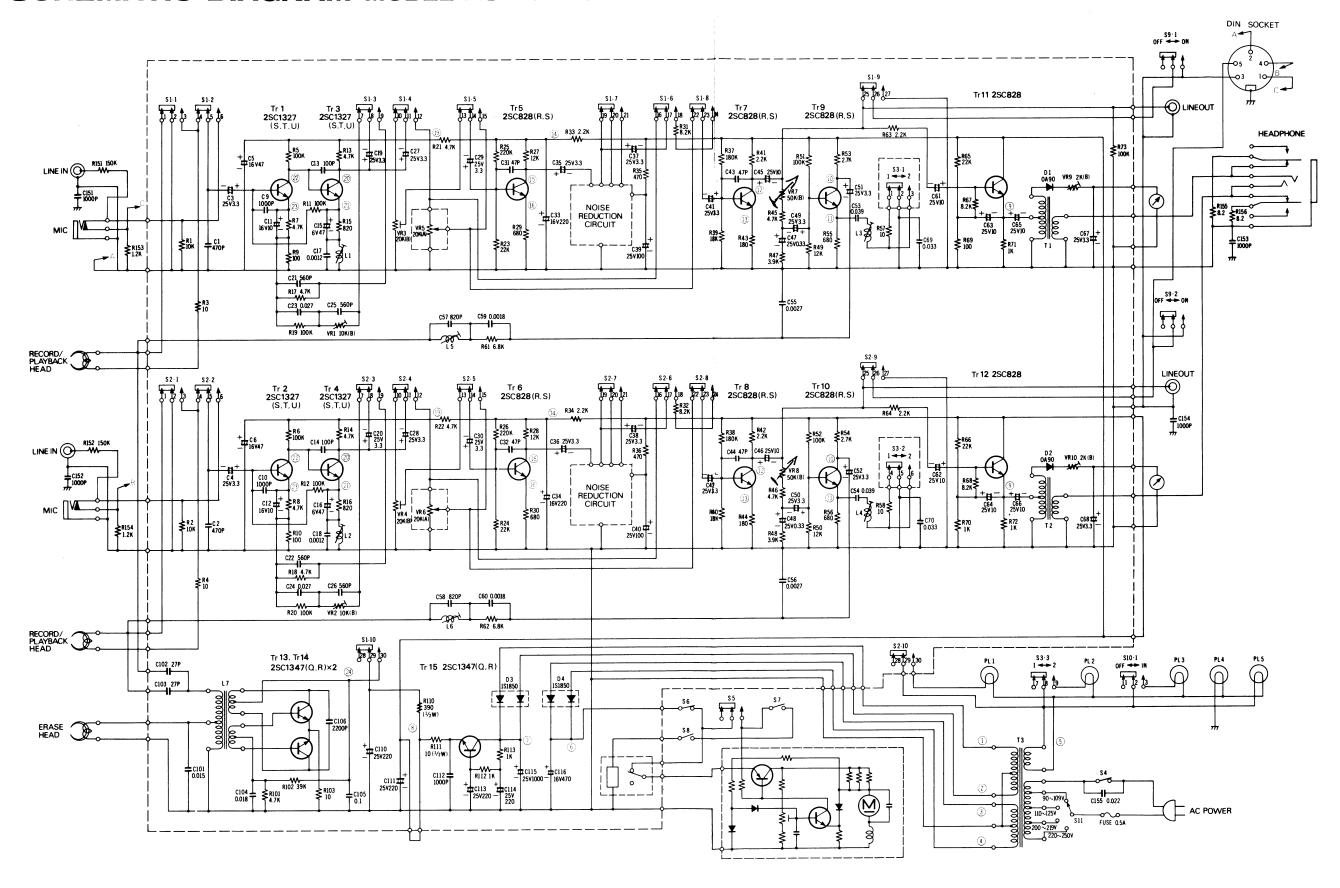
^{*} Dolby is the trade mark of Dolby Laboratories Inc.

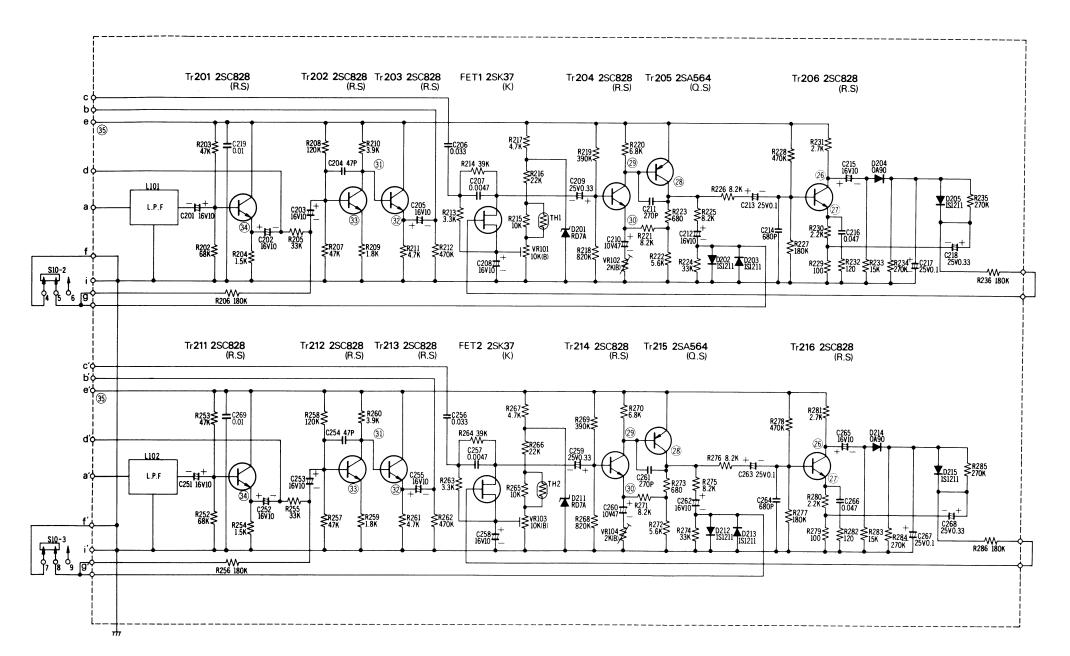
ELECTRICAL PARTS LOCATION





SCHEMATIC DIAGRAM MODEL RS-263US





STANDARD VOLTAGE CHART

Check Point	Rec	ording	Pla	yback	Check Point	Recording	Playback
①	AC	18.6V	AC	18.9V	(19	+ 9.9V	+10.0V
2	AC	18.6V	AC	18.9V	20	+ 4.7V	+ 5.0V
(3)	AC	8.1V	AC	8.2V	21	+ 0.9V	+0.91V
4	AC	8.1V	AC	8.2V	22	+1.45V	+1.55V
5	AC	10.2V	AC	10.4V	23	+0.37V	+0.39V
6		+8.9V		+9.0V	24	+12.6V	_
Đ	+	23.1V	+	-23.6V	26	+10.8V	+11.2V
8	+	-19.7V	+	20.6V	27.	+2.6V	+ 2.7V
9	+	14.0V	+	14.8V	28	+8.9V	+ 9.4V
10	+	10.4V	+	11.0V	29	+13.2V	+13.9V
Œ		+ 3.2V		+3.4V	30	+8.8V	+9.3V
12		+ 9.4V		+ 9.5V	31	+ 7.4V	+ 7.6V
13	+	0.88V	+	0.95V	32)	+ 6.7 V	+ 7.0 V
14	+	15.0V	+	15.5V	(33)	+3.0V	+3.1V
15		+ 5.4V		+5.4V	34	+7.1V	+ 7.5V
16		+ 6.3V		+ 0.7V	35	+13.6V	+14.2V

NOTE: All measurements are under no signal conditions with volume at minimum position.

Use VTVM for voltage measurements.

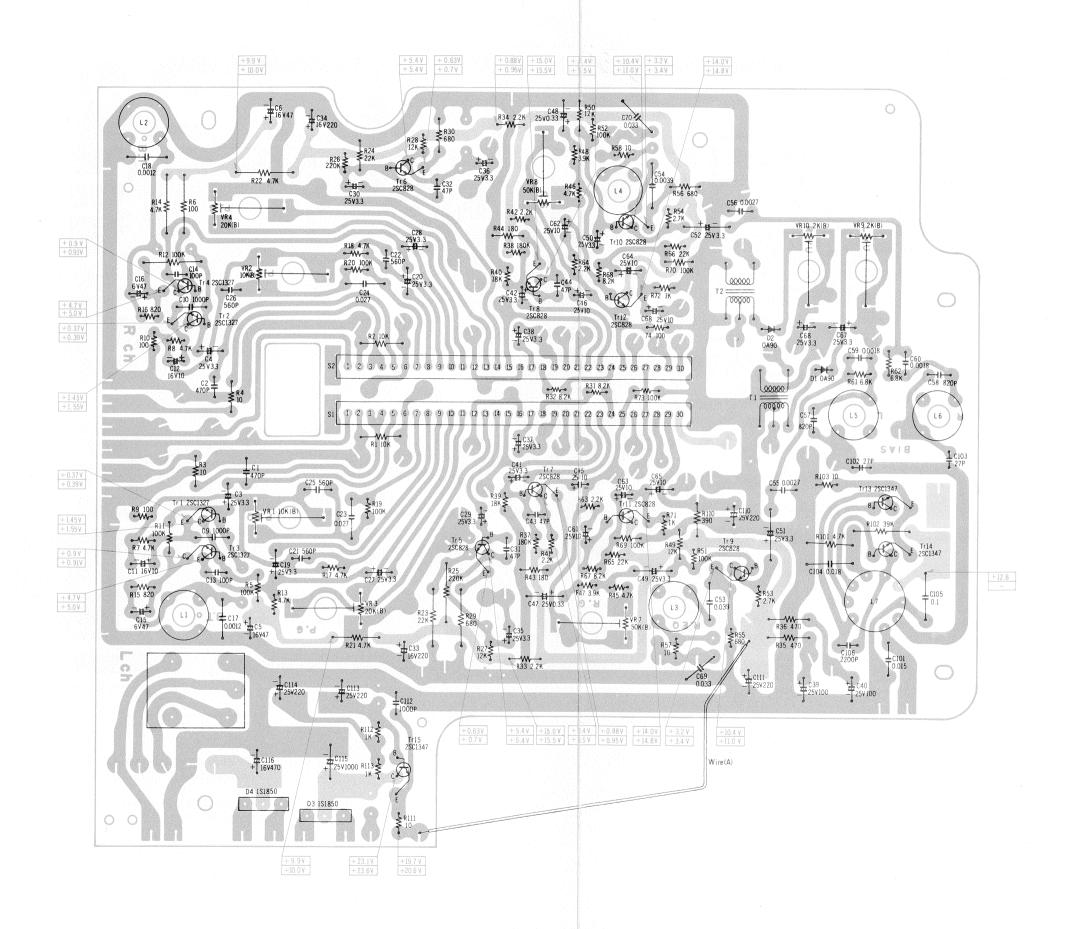
NOTE:

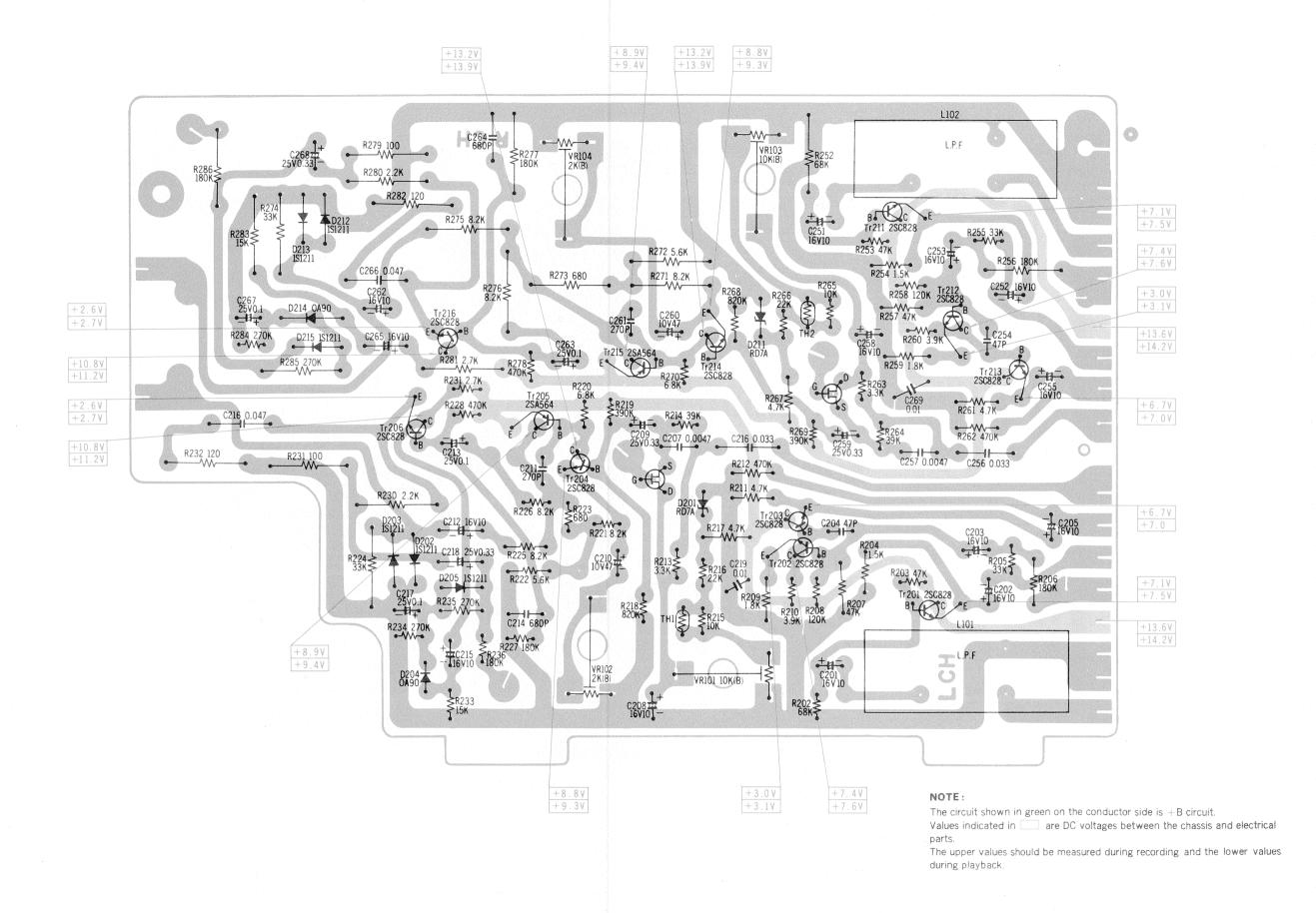
110	'IE.
1	\$1-1~\$1-10. \$2-1~2-10 Record/playback select switch (shown in playbaposition).
2.	S3-1~S3-3Tape select switch (shown in NORMAL position). 1NORMAL, 2CrO ₂
3.	S4 Power ON/OFF switch (shown in ON position).
4.	S5
5.	S6 Motor ON/OFF switch (shown in ON position).
6.	S7 Rewind switch (ON at rewind position).
	S8 Counter switch.
8.	S9-1, S9-2 Stop switch (OFF at playback position).
9.	\$10-1~\$10-3 Noise reduction circuit IN/OUT switch (DOLBY system, shown in OUT position).
10.	S11, Voltage select switch.
	VR1, VR2 Playback equalizer adjustment VR.
12.	VR3, VR4Playback adjustment VR.
	VR5, VR6
14.	VR7, VR8 Record level adjustment VR.
15.	VR9, VR10 VU meter adjustment VR.
16.	VR101~VR104 Noise reduction circuit adjustment.
	Resistors are ohms $(\Omega),1/4$ watt unless specified otherwise. K $=1,000\Omega.$
18.	Capacitors are microfarad (μ F) unless specified otherwise.

18. Capacitors are microfarad (μ F) unless specified otherwise P=Pico-farads.

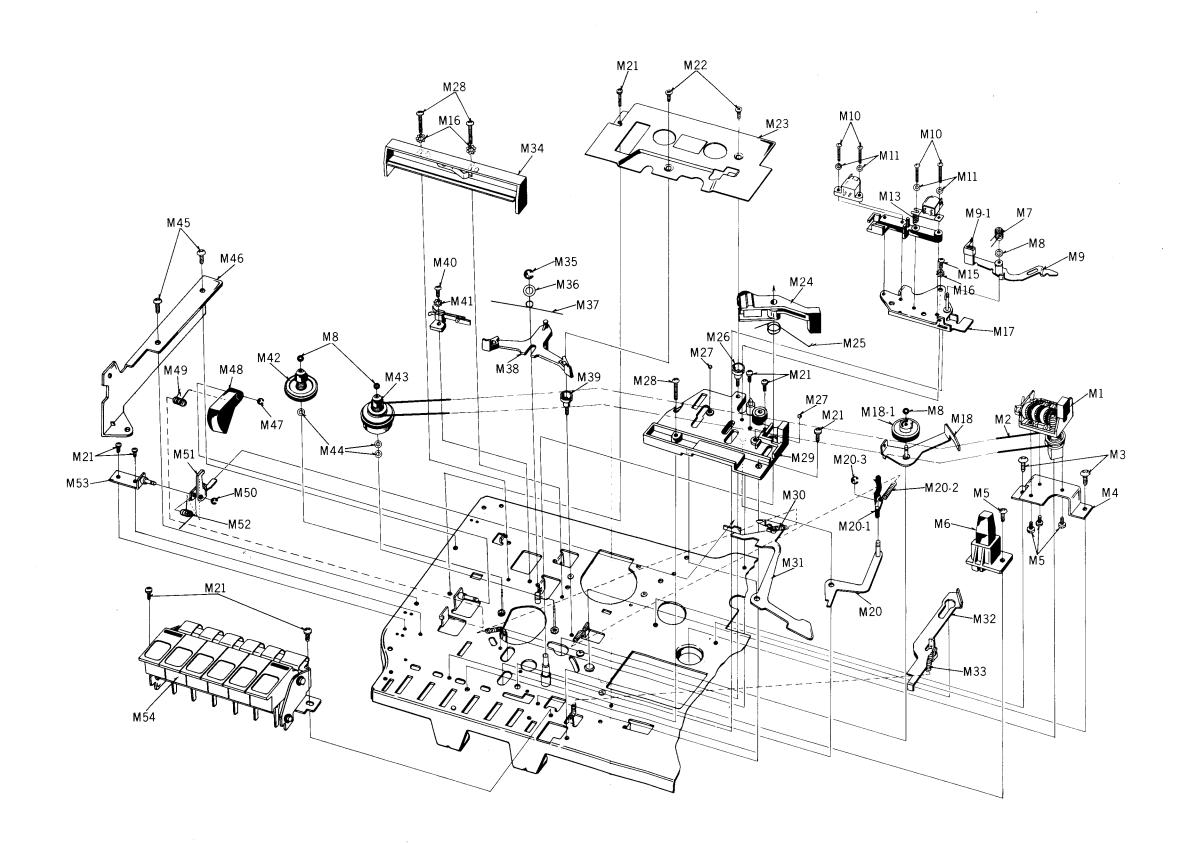
19. Encircled numbers () show the checkpoints for voltage. The values are marked in the standard voltage chart.

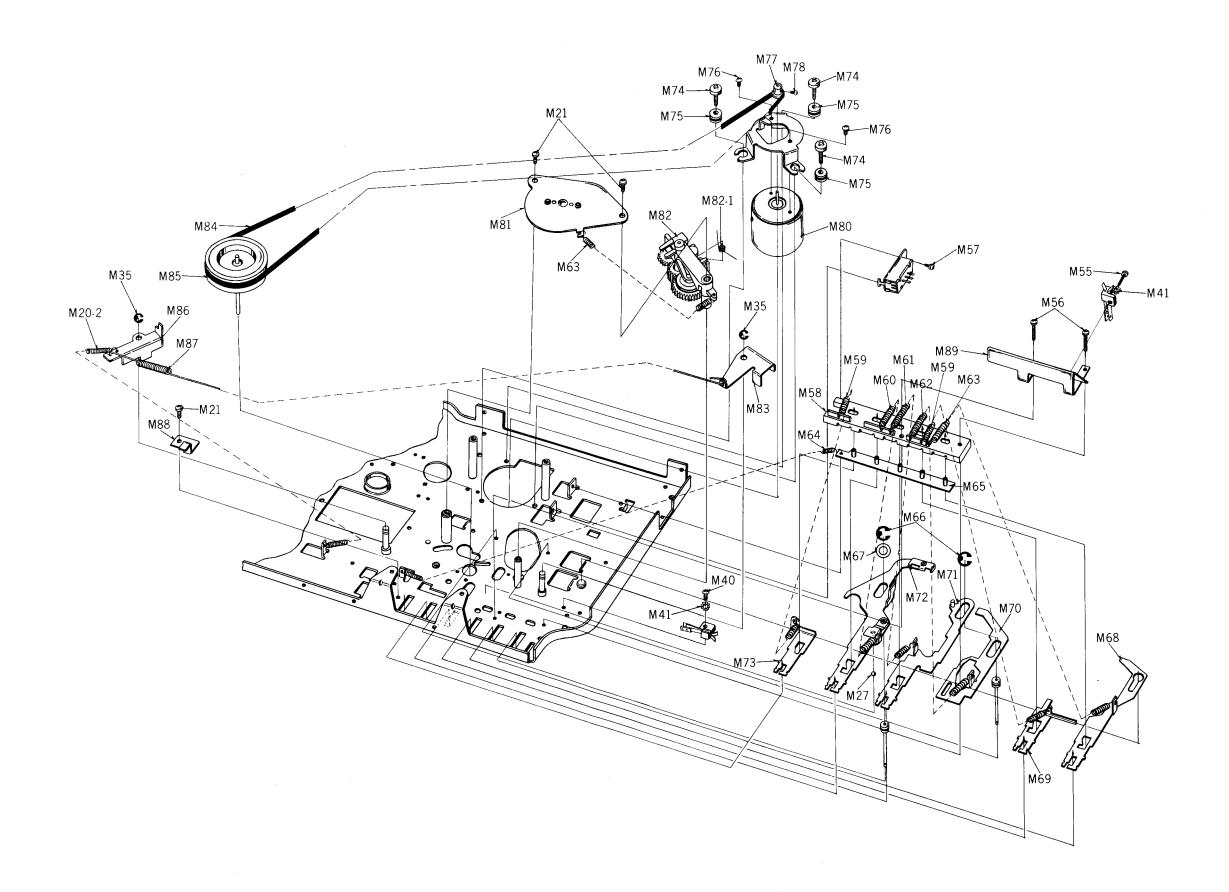
CIRCUIT BOARD



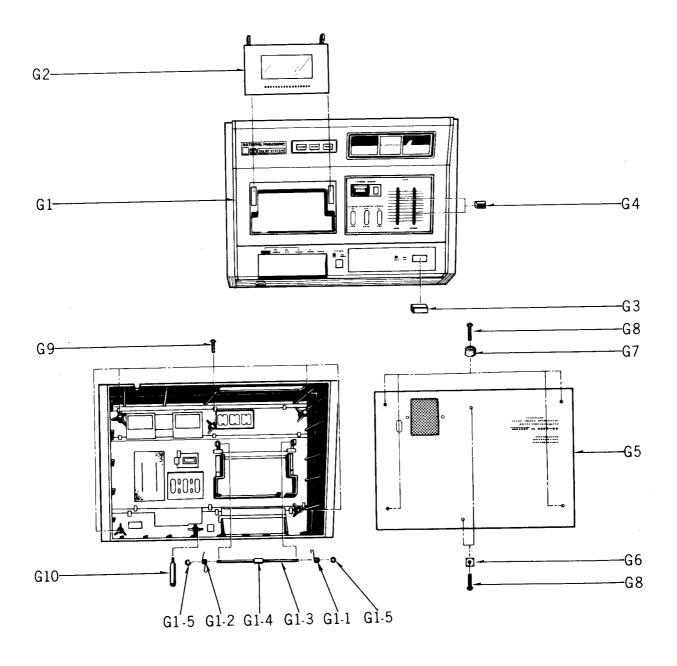


EXPLODED VIEWS





CABINET PARTS



REPLACEMENT PARTS LIST MODEL RS-263US NATIONAL PANASONIC



RS-263US

NOTE:

- 1. Be sure to make your orders of Replacement Parts according to this List.
- 2. "x" in "Rank" Column indicates that the part are not supplyable.
- 3. "A, B and C" in "Rank" Column indicates the recommended stock of replacement parts. Refer to the recommended stock table on last page.
- 4. "★" in "Remarks" Column indicates New Parts.
- 5. "(ISO" in "Remarks" Column indicates ISO Screw or Nut.

NOTA:

- 1. Habrá que asegurarse que los pedidos de piezas de repuesto se hagan según esta lista.
- 2. "X" marcado en la columna "Rank", quiere decir que dichas piezas no pueden ser provistas.
- 3. "A, B y C" marcadas en la columna "Rank" indican el surtido que se recomienda tener de dichas piezas de repuesto.
- 4. "★" marcado en la columna "Remarks", quiere decir que las piezas son nuevas.
- 5. "(150)" marcado en la columna "Remarks", quiere decir que es un tornillo o tuerca "ISO".

NOTE:

- 1. Bien s'assurer de se conformer à la liste suivante pour les commandes de pièces de rechange.
- 2. "X", dans la colonne "Rank", indique qu'il n'est pas possible de fournir ces pièces.
- 3. "A, B et C", dans la colonne "Rank", indiquent le stock recommandé de pièces de rechange. Se reporter en dernière page au tableau des stocks/recommandés.
- 4. "★", dans la colonne "Remarks", indique les pièces nouvelles.
- 5. "(), dans la colonne "Remarks", indique une vis ou un écrou ISO.

HINWEIS:

- 1. Bestellen Sie Ihre Ersatzteile genau nach dieser Liste.
- 2. Mit "x" in der "Rank" Spalte aufgeführte Teile können nicht geliefert werden.
- 3. "A, B und C" in der "Rank" Spalte zeigt Ihnen den Vorrat der Ersatzteile an.
- 4. "★" in der "Remarks" Spalte bedeutet "neue Teile".
- 5. "(150)" in der "Remarks" Spalte bedeutet ISO-Schraube oder Mutter.

按:

- 1. 關於代用零件之訂購, 務請依照此表而行之爲荷。
- 2. 「等級」(Rank) 一欄中之"×"標記表示該零件無從供應。
- 3. 「等級」(Rank) 一欄中之"A,B,C"標記表示該零件有存貨,值得介紹。 請參照最後一頁的「值得介紹存貨表」。
- 4. 「備考」(Remarks) 一欄中之"★"形符號標記表示該零件爲新出品。
- 5. 「備考」(Remarks) 一欄中之 "()" 符號標記表示國際標準化機構 (ISO) 式螺絲或螺母。

Rank	Def. No.	Description	Doub No	Pcs/	Price (Per Pce.)	
Kank	Ref. No.	Description	Part No.	Set		Remarks
		MECHANICAL PARTS				
A	M1	Memory Tape Counter	QDC0041S	1		★ (Iso)
A	M2	Counter Belt	QDB0124	1		RS-253S
C	M3	Tapping Screw ⊕3×6	XTV3+6	2		COMMON
×	M4	Counter Angle	QMAM005	1		*
C	M5	Screw ⊕3×5	XSN3+5S	4		COMMON (ISO
C	M6	Pause Switch Assembly	QXQM002	1		*
С	M7	Auto Stop Detecting Lever Spring	QBN1188	1		RQ-409S RS-261US
С	M8	Snap Washer	QWQ1124	4		RQ-437S RS-261US
С	M9	Detecting Lever Assembly	QXLM005	1		*
В	M9-1	Detecting Piece	QBJ1538	1		RQ-437S RS-261US
						1.10
С	M10	Screw ⊖2×12	XSN2 12	4		COMMON
С	M11	Spring Washer 2¢	XWA2B	3		***
C	M12	Washer 2¢	XWE2	1		,,
В	M13	Head Spring	QBC1103	1		RQ-209S, 437S RS-261US
C	M14	Head Spacer	QBJM003	1		RS-261US
C	M15	Screw ⊕2.6×6	XSN26+6	2		COMMON
С	M16	Lock Washer 2.6¢	XWC26B	2		77
×	M17	Head Base Plate Unit	QXK1243	1		RS-261US- 281S
A	M18	Idler Lever Assembly	QMLM008	1		*
×	M18-1	ldler	QX10050	1		RQ-437S RS-261US
C	M20	Auto Stop Drive Lever Assembly	QXL0568	1		*
В	M20-1	Auto Stop Drive Pawl	QBJ1656	1		RQ-409S, 437S
C	M20-2	Auto Stop Spring	QBT1489M	1		RQ-437S RS-261US
C	M20-3	Stop Ring 2.5∮	XUC25FK	1		COMMON
C	M21	Sems Screw ⊕2.6×6	XYN26+C6	8		,,
C	M22	Screw ⊕2.5×5	XSS26+5K	2		COMMON
С	M23	MECHA Panel Ornament	QMFM001	1		*
A	M24	Pressure Roller Lever Assembly	QXLM010	1		*

D-7 11	Description	Doub No.	Pcs/	Price (Per Pce.)	Remarks
Ket. No.	Description	Part No.	Set		
M25	Pressure Roller Spring	QBN1157	1		RQ-437S RS-261US
M26	Pole-A	QMSM008	1		*
M27	Steel Ball 2.5∳	QDK1012	3		RQ-437S RS-261US
M28	Screw ⊕2.6×10	XSN26+10	3		COMMON
M29	Upper Base Assembly	QXK1293	1		*
м30	Lock Plate Spring	QBT1521	1		RS-261US, 281S
M31	Eject Lever	QMLM012	1		*
M32	Pause Lever	QMLM010	_		*
M33	Stop Lever Spring	QBT1580	1		RQ-437S RS-261US
M34	Cassette Retainer Assembly	QXQ0061	1		*
M35	Stop Ring 3¢	XUC3FK	2		COMMON
M36	Fiber Washer 4.2×9×0.5	QBK7005	1		79
M37	Brake Spring	OBN1088	1		RQ-209S RS-254S
					RS-2545 ★
					*
M40					COMMON
M41		XWC2B	3		"
M42	Supply Reel Table Assembly	QXP0320	1		RQ-437S RS-261US
M43	Takeup Reel Table Assembly	QXP0395	1	***************************************	*
M44	Snap Washer	QBJ3220	3		RQ-409S RS-281S
M45	Tapping Screw ⊕3×8	XTV3+8B	2		COMMON
M46	Dolby Circuit Board Holding Angle	QTTM044S	1		* (ISO)
M47	Stop Ring 1.5¢	XUC15FK	1		COMMON
M48	Cassette Up	QBJM007	1		***************************************
M49	Cassette Up Spring	QBNM001	1		*
M50	Stop Ring 2¢	XUC2FK	1		COMMON
M51	Lid Hook Plate	QMAM009	1		*
M52	Lid Hook Plate Spring	OBN1189	1		
					*
	M26 M27 M28 M29 M30 M31 M32 M33 M34 M35 M36 M37 M38 M39 M40 M41 M42 M43 M44 M45 M46 M47 M48 M49 M50	M25 Pressure Roller Spring M26 Pole-A M27 Steel Ball 2.5 ∮ M28 Screw ⊕2.6 × 10 M29 Upper Base Assembly M30 Lock Plate Spring M31 Eject Lever M32 Pause Lever M33 Stop Lever Spring M34 Cassette Retainer Assembly M35 Stop Ring 3 ∮ M36 Fiber Washer 4.2 × 9 × 0.5 M37 Brake Spring M38 Brake M39 Pole-B M40 Screw ⊕2 × 4 M41 Lock Washer 2 ∮ M42 Supply Reel Table Assembly M43 Takeup Reel Table Assembly M44 Snap Washer M45 Tapping Screw ⊕3 × 8 M46 Dolby Circuit Board Holding Angle M47 Stop Ring 1.5 ∮ M48 Cassette Up M49 Cassette Up Spring M50 Stop Ring 2 ∮ M51 Lid Hook Plate	M25 Pressure Roller Spring QBN1157 M26 Pole-A QMSM008 M27 Steel Ball 2.5∳ QDK1012 M28 Screw ⊕2.6×10 XSN26+10 M29 Upper Base Assembly QXK1293 M30 Lock Plate Spring QBT1521 M31 Eject Lever QMLM012 M32 Pause Lever QMLM010 M33 Stop Lever Spring QBT1580 M34 Cassette Retainer Assembly QXQ0061 M35 Stop Ring 3∳ XUC3FK M36 Fiber Washer 4.2×9×0.5 QBK7005 M37 Brake Spring QBN1088 M38 Brake QBJ2097 M39 Pole-B QMSM009 M40 Screw ⊕2×4 XSN2-4 M41 Lock Washer 2∳ XWC2B M42 Supply Reel Table Assembly QXP0320 M43 Takeup Reel Table Assembly QXP0395 M44 Snap Washer QBJ3220 M45 Tapping Screw ⊕3×8 XTV3+8B	M25 Pressure Roller Spring QBN1157 1 M26 Pole-A QMSM008 1 M27 Steel Ball 2.5∳ QDK1012 3 M28 Screw ⊕2.6 × 10 XSN26+10 3 M29 Upper Base Assembly QXK1293 1 M30 Lock Plate Spring QBT1521 1 M31 Eject Lever QMLM012 1 M32 Pause Lever QMLM010 1 M33 Stop Lever Spring QBT1580 1 M34 Cassette Retainer Assembly QXQ0061 1 M35 Stop Ring 3∳ XUC3FK 2 M36 Fiber Washer 4.2 × 9 × 0.5 QBK7005 1 M37 Brake QBJ2097 1 M38 Brake QBJ2097 1 M40 Screw ⊕2 × 4 XSN2-4 2 M41 Lock Washer 2∳ XWC2B 3 M42 Supply Reel Table Assembly QXP0320 1 M43 Takeup Reel	Ref. No. Description Part No. Set (a) M25 Pressure Roller Spring QBN1157 1 M26 Pole-A QMSM008 1 M27 Steel Ball 2.5½ QDK1012 3 M28 Screw ⊕2.6×10 XSN26+10 3 M29 Upper Base Assembly QXK1293 1 M30 Lock Plate Spring QBT1521 1 M31 Eject Lever QMLM012 1 M31 Eject Lever QMLM012 1 M33 Stop Lever Spring QBT1580 1 M34 Cassette Retainer Assembly QXQ0061 1 M35 Stop Lever Spring QBK7005 1 M36 Fiber Washer 4.2×9±0.5 QBK7005 1 M37 Brake Spring QBN1088 1 M39 Pole-B QMSM009 1 M40 Screw ⊕2×4 XSN2-4 2 M41 Lock Washer 2¢ XWC28 3 M42 Supply R

				Pcs/ Price (Per Pce.	
Rank	Ref. No.	Description	Part No.	Set	Remarks
В	M54	Operation Button Assembly	QXBM006	1	*
С	M55	Screw ⊕2×8	XSN2+8	1	COMMON
C	M56	Sems Screw ⊕2.6×10	XYN26+C10	2	"
С	M57	Sems Screw ⊕3×6	XYN3C6S	1	COMMON (Iso
C	M58	Lever Guide	QBJ1657	1	RQ-437S RS-261US
C	M59	Stop Lever Spring	QBT1580	2	,,
C	M60	Playback Lever Spring	QBT1536M	1	,,
C	M61	Fast Forward Lever Spring-A	QBT1484M	1	"
С	M62	Fast Forward Lever Spring-B	QBT1485M	1	RQ-437S RS-261US
С	M63	Record Lever Spring	QBT1486M	1	>>
С	M64	Lock Plate Spring	QBT1521	1	RS-261US, 281S
C	M65	Lock Plate Unit	QXH0096	1	RQ-437S RS-261US
С	M66	Stop Ring 5∮	XUC5FK	2	COMMON
C	M67	Fiber Washer 6.2×11×1	QBK7130	1	COMMON
С	M68	Record Lever	QMLM008	1	*
С	M69	Rewind Lever	QMLM009	1	*
С	M70	Fast Forward Lever-B	QML2118	1	RQ-409S RS-261US, 281S
C	M71	Fast Forward Lever Unit	QXL0481	1	RS-261US, 281S
С	M72	Płayback Lever Unit	QXLM009	1	*
С	M73	Stop Lever	QML1954	1	RS-281S
C	M74	Screw	QMS1833	3	RQ-437S RS-261US
C	M75	Motor Rubber Cushion	QBG1055A	3	,,
C	M76	Screw ⊕2.6×3	XSN26+3	2	COMMON
В	M77	Motor Pulley	QDP1378	1	RQ-437S RS-261US
C	M78	Motor Pulley Set Screw	XSN2÷3	1	COMMON
×	M79	Motor Holding Angle	QMA1681	1	RS-261US, 281S
A	M80	Motor	QDM0980	1	RQ-436S RS-261US
×	M81	Flywheel Retainer Unit	QXH0095	1	RQ-437S RS-261US
C	M82	Fast-wind Lever Assembly	QXL0451		RQ-437S RS-261US

					Pcs/	Price (Per Pce.)		
Rank	Ref. No.	Descr	iption		Part No.	Set		Remarks
С	M82-1	Gear Lever Spring			QBN1196	1		RQ-437S RS-261US
C	M83	Record/Playback I	_ever-A		QMLM006	1		*
A	M84	Flywheel Belt			QDB0141	1		RQ-437\$ RS-261US
A	M85	Flywheel Assembly	/		QXF0063	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
C	M86	Record/Playback I	_ever-B		QMLM007	1		*
C	M87	Record/Playback	Wire		QBNM002	1		*
C	M88	Lever Guide Holdin	ng Metal		QMA1697	1		RS-261US, 281S
×	M89	Muting Switch Ang	gle		QTTM052S	1		★ (Iso)
		RESIS	TORS					
В	R1, 2, 215, 265	Carbon Resistor	10ΚΩ 1	./4 W	ERD14VJ103	4		
В	R3, 4, 57, 58, 103 [.]	,,	10Ω 1	./4 W	ERD14VJ100	5		
В	Į.	51, 52, 69, 70, 73,	74					
		**	100ΚΩ 1	/4 W	ERD14VJ104	10		
В	R6, 12	"	100ΚΩ 1	./4 W	ERD14TJ104	2		
В	R7,8,13,17,18,	21,45,46,101,211	,217,261,26	7				
		"	4.7 ΚΩ 1	./4 W	ERD14VJ472	13		
В	R9, 10	Carbon Resistor	100Ω 1	_/4 W	ERD14VJ101	2		
В	R14, 22	**	4.7 ΚΩ 1	./4 W	ERD14TJ472	2		
В	R15, 16	**	820Ω 1	./4 W	ERD14VJ821	2		
В	R23	"	22ΚΩ 1	./4 W	ERD14TJ223	1		
В	R24, 65, 66, 216, 266	,,	22 KΩ 1	./4 W	ERD14VJ223	5		
В	R25	Carbon Resistor	220ΚΩ 1	/4 W	ERD14TJ224	1		
В	R26	,,,	220 ΚΩ 1		ERD14VJ224	1		
В	R27, 28, 49, 50	***	12ΚΩ 1		ERD14VJ123	4		
В	R29, 273	22	680Ω 1		ERD14TJ681	2		
В	R30, 55, 56, 223	"	680Ω 1		ERD14VJ681	4		
	R31,32,67.68,	Ocaber Devices	0.01/0.1	// ١٠٠	EDD14V1000			
В	R33,34,41,42,	Carbon Resistor	8.2 KΩ 1		ERD14VJ822	7		
В	63,64	"	2.2 ΚΩ 1		ERD14VJ222	6		
В	R35, 36	79	470Ω 1		ERD14VJ471	2		
В	R37, 38, 206, 227, 236	***	180ΚΩ 1	./4 W	ERD14VJ184	5		

						Pcs/_	Price (F	Per Pce.)	
Rank	Ref. No.	Descri	iption		Part No.	Set			Remarks
В	R39, 40	Carbon Resistor	18ΚΩ	1/4 W	ERD14VJ183	2			
В	R43, 44 R47, 48, 210,	Carbon Resistor	180Ω		ERD14VJ181	2			
B	260	,,	3.9 ΚΩ	1/4 W	ERD14VJ392	4			
В	R53, 54, 231	,,	2.7 ΚΩ	1/4 W	ERD14VJ272	3			
В	R61, 62, 220, 270	>>	6.8ΚΩ	1/4 W	ERD14VJ682	4			
В	R71, 72, 112, 113	***	1ΚΩ	1/4 W	ERD14VJ102	4			
B	R102	Carbon Resistor	39 ΚΩ	1/4 W	ERD14TJ393	1			
В	R110	Solid Resistor	270Ω	1/4 W	ERC12GK271	1			
В	R111	"	10Ω	1/4 W	ERC12GK100				- +
В	R151, 152	Carbon Resistor	150ΚΩ	1/4 W	ERD14TJ154	2			
В	R153, 154	***	1.2 ΚΩ	1/4 W	ERD14TJ122	2			
	1,133,134						•••		
В	R155, 156	Carbon Resistor	8.2Ω	1/4 W	ERD14TJ8R2	2		. 1 1. 0.1	
В	R202	. ,,	68 KΩ	1/4 W	ERD14VJ683	1			
В	R203,207,253, 257	77	47ΚΩ	1/4 W	ERD14VJ473	4			
В	R204, 254	,,	1.5 ΚΩ	1/4 W	ERD14VJ152	2			
В	R205, 255	"	33 ΚΩ	1/4 W	ERD14VJ333	2			
В	R208, 258	Carbon Resistor	120ΚΩ	1/4 W	ERD14VJ124	2			
В	R209, 259	,,	1.8ΚΩ	1/4 W	ERD14VJ182	2			
В	R212,228,262, 278	27	470 ΚΩ	1/4 W	ERD14VJ474	4			
В	R213, 263	,,,	3.3 ΚΩ	1/4 W	ERD14VJ332	2	***		
В	R214, 264	99	39 ΚΩ	1/4 W	ERD14VJ393	2			
			0.00						
В	R218, 268	Carbon Resistor	820 ΚΩ	1/4 W	ERD14VJ824	2			
В	R219, 269	99	390 ΚΩ	1/4 W	ERD14VJ394	2			
В	R222	> 7	5.6 ΚΩ	1/4 W	ERD14VJ562	1			
В	R224, 274	,,	33 ΚΩ	1/4 W	ERD14TJ333	2			
В	R229, 279	23	100Ω	1/4 W	ERD14TJ101	2		10	
В	R230, 280	Carbon Resistor	2.2 ΚΩ	1/4 W	ERD14TJ222	2			
В	R232, 282	,,	120Ω	1/4 W	ERD14TJ121	2			
В	R233	"	15ΚΩ	1/4 W	ERD14VJ153	1			

				_	Pcs/	Price (Per Pce.)	
Rank	Ref. No.	Descripti	on	Part No.	Set		Remarks
В	R234,235,284	Carbon Resistor 2	70 KΩ 1/4 W	ERD14VJ274	3		
В	R252	,, (58KΩ 1/4W	ERD14TJ683	1		
В	R256,277,286	Carbon Resistor 18	80 KΩ 1/4 W	ERD14TJ184	3		
В	R271,275,276	,, 8	3.2 KΩ 1/4 W	ERD14TJ822	3		
В	R272	,, 5	5.6 KΩ 1/4 W	ERD14TJ562	1		
В	R281	,, 2	2.7 KΩ 1/4 W	ERD14TJ272	1		
В	R283	,,	15KΩ 1/4W	ERD14TJ153	1		
В	R285	Carbon Resistor 2	70 KΩ 1/4 W	ERD14TJ274	1		
		VARIABLE RE	SISTORS				
A	VR1, 2	Semi-fixed Variable Re	sistor 10 KΩ (B)	QVL00AA00B14	2		RS-262US,275US
A	VR3, 4	,,	20 KΩ (B)	EVLS3AA00B24	2		*
A	VR5, 6	Variable Resistor	20 KΩ (A)	EVA72AA01A24	2		RS-262US
A	VR7, 8	Semi-fixed Variable Re	sistor 50 KΩ (B)	QVL00AA00B54	2		RS-270US,261US 715US
A	VR9, 10, 102, 104	,	2 KΩ (B)	QVL00AA00B23	4		*
	104		,				
A	VR101, 103	Semi-fixed Variable Re	sistor 10 KΩ (B)	EVL53AA00B14	2		*
			101(42 (5)				
		CAPACITORS					
С	C1, 2	Styrol Capacitor	470 pF	ECQS1471KZ	2		
В	C3, 4.19,20,27, 52,67,68	28,29,30,35,36,37,38,49	9,50,51	MATERIAL STATE OF THE STATE OF			
	32,07,08	Electrolytic Capacitor	3.3 <i>μ</i> F	ECEA25V3R3L	18		
В	C5, 6	"	47 <i>μ</i> F	ECEA16V47L	2		
C	C9,10,151, 152,153,154	Ceramic Capacitor	1000 pF	ECKD05102MZ	6		
В	C11,12,201,20 255,258,262,	2,203,205,208,215,251 265	,252,253,				
	233,230,202,	Electrolytic Capacitor	10 <i>μ</i> F	ECEA16V10L	16		
С	C13, 14	Ceramic Capacitor	100 pF	ECCD05101K	2		
В	C15, 16	Electrolytic Capacitor	47 <i>μ</i> F	ECEA6V47L	2		
C	C17, 18	Mylar Capacitor	0.0012 <i>μ</i> F	ECQM05122KZ	2		
С	C21,22,25,26	Styrol Capacitor	560 pF	ECQS1561KZ	4		
C	C23, 24	Mylar Capacitor	0.027 <i>μ</i> F	ECQM05273KZ	2		
			·				

<u>.</u>	D.C.N.	D		D1 A1	Pcs/ Pi	rice (Per Pce.)	D
Rank	Ref. No.	Description	n 	Part No.	Set		Remarks
C	C31,32,43,44, 204,254	Ceramic Capacitor	47 pF	ECCD05470K	6		
В	C33, 34	Electrolytic Capacitor	220 <i>µ</i> F	ECEA16V220L	2		
В	C39, 40	,,	100 <i>μ</i> F	ECEA25V100L	2		
C	C41,42,47,48,	209, 218, 259, 268					
		Aluminum Capacitor	0.33 <i>μ</i> F	ECAG25ER33	8		
В	C45,46,61,62, 63,64,65,66	Electrolytic Capacitor	10 <i>μ</i> F	ECEA25V10L	8		
C	C53, 54	Mylar Capacitor	0.039μF	ECQM05393KZ	2		
С	C55, 56	"	0.0027 <i>µ</i> F	ECQM05272KZ	2		
С	C57, 58	Styrol Capacitor	820 pF	ECQS1821KZ	2		
С	C59, 60	Mylar Capacitor	0.0018 <i>µ</i> F	ECQM05182KZ	2		
С	C69, 70, 206, 256	"	0.033 <i>μ</i> F	ECQM05333KZ	4		
C	C101	Mylar Capacitor	0.015 <i>μ</i> F	ECQM1153KZ	1		
С	C102, 103	Ceramic Capacitor	27 pF	ECCD05270K	2		
С	C104	Mylar Capacitor	0.018 <i>μ</i> F	ECQM05183KZ	1		
С	C105	**	0.1 <i>µ</i> F	ECQM05104KZ	1		
С	C106	Styrol Capacitor	2200 pF	ECQS1222KZ	1		
В	C110,111,113,	Electrolytic Capacitor	220 <i>µ</i> F	ECEA25V220L	4		
В	C115	"	100μF	ECEA25V1000L	1		
В	C116	,,	470 <i>μ</i> F	ECEA16V470L	1		
С	C207, 257	Mylar Capacitor	0.0047 <i>μ</i> F	ECQM05472KZ	2		
В	C210, 260	Electrolytic Capacitor	47μF	ECEA10V47L	2		
C	C211, 261	Styrol Capacitor	270 pF	ECQS1271KZ	2		
C	C213,217,263,	Aluminum Capacitor	0.1 <i>μ</i> F	ECAG25ER1	4		
С	C214, 264	Styrol Capacitor	680 pF	ECQS1681KZ	2		
C	C216, 266	Mylar Capacitor	0.047 <i>μ</i> F	ECQM05473KZ	2		
С	C219, 267	Ceramic Capacitor	0.01 µF	ECCD05103P	2		
		TRANSIST	ORS_				
A	Tr1, 2, 3, 4	Transistor		2SC1327(S,T,U)	4		*
A	Tr5,6,7,8,9,10, 212,213,214,	11,12,201,202,203,204,2 216	06,211,				De 07011 075120
		,,		2SC828(R,S)	18		RS-270U\$ 275US 715U\$

				Pcs/ Price (Per Pce.)	
Rank	Ref. No.	Description	Part No.	Set	Remarks
Α	Tr13, 14, 15	Transistor	2SC1347(Q,R)	3	*
A	Tr205, 215	"	2SA564(Q,R)	2	RS-257S, 281S, 282S, 818S
A	FET1, 2	"	2SK37(K)	2	*
		DIODES			
A	D1,2,204,214	Diode	OA90	4	COMMON
A	D3 4	"	IS1850	2	RQ-437S RS-275US
A	D201, 211	"	RD7A	2	*
A	D202,203,205, 212,213,215	27	IS1211	6	RS-253S, 257S, 267S, 272US
		THERMISTORS			
В	TH1, 2	Thermistor	QVM302A	2	RS-763S, 820
		TRANSFORMERS			
A	T1, 2	Output Transformer	QLA0349	2	RS-270US,275US 763US,796US
A	Т3	Power Transformer	QLPM0308	1	*
		COILS			
A	L1, 2	Trap Coil	QLHM2001	2	*
A	L3. 4, 5, 6	Choke Coil	QLH2008	4	RS-262US,270US 740US
A	L7	Oscillator Coil	QLB0153	1	*
A	L101, 102	Low Pass Filter	QLH2021	2	*
		SWITCHES			
A	\$1,2	Slide Switch (Record/Playback Selector)	QSS1148A	2	*
A	S3, 10	Lever Switch	QST0033SB	2	*
A	S4	Push Switch (Power)	ESB1130D\$	1	★ (Iso
A	\$5	Lever Switch (Memory Rew.)	QST0016SB	1	RS-275US
A	S6	Leaf Switch (Motor ON/OFF)	QSB0169A	1	RS-256US,262US 803US
Α	S7	Leaf Switch (Rewind Switch)	QSB0170A	1	RS-253S, 254S, 270US
	\$8	Memory Counter Switch	with M1	(1)	
A	S9	Stop Switch	QSS1105	1	RS-275US
A	S11	Rotary Switch (Voltage Selector)	QSR0005B	1	COMMON
A	S12	Muting Switch	QSBM001	1	*

	D (N		D. I.N.	Pcs/ Price (Per P	ce.)
Rank	Ref. No.	Description	Part No.	Set	Remarks
		ELECTRICAL PARTS			
A	E1	Record/Playback Head	QWY4107Z	1	*
A	E2	Erase Head	WY0242Z	1	*
С	E3	Jack Board	QJTM008	1	*
В	E4	M3 Jack	QJA0115	2	COMMON
A	E5	Pilot Lamp	XAMQ18P	5	*
C	E6	2P Lug Terminal	QJT2012	1	*
В	E7	Headphone Jack	QJA0228	1	RS-270US, 272US 715US
В	E8	AC Power Cord	QFC1016A	1	COMMON
С	E9	Cord Bushing	QTD1126A	1	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
С	E10	Switch Guide	QBJ2133	1	*
A	E11	VU Meter	QSL1018	2	*
С	E12	Meter Holder	QTQM004	1	*
В	E13	DIN Jack	QJS0723S	1	RS-262US. (ISO)
С	E14	4P Terminal Board	QJT4009	2	COMMON
С	E15	Fuse Holder	QTF1032	1	"
С	E16	Reflection Plate	QBJ2141	1	*
C	E17	Screw	XSNQ0004S	2	COMMON
A	E18	See-Saw Knob (Blue)	QGT2122AS	1	*
A	E19	See-Saw Knob (Yellow)	QGT2122BS	1	*
A	E20	See-Saw Knob	QGTM013S	1	*
A	E21	Relay	QSK0121	1	RS-270U§
A	E22	Fuse 0.5 A	XBA1E05NR1	1	COMMON
		CABINET PARTS			
В	G1	Main Body Case Assembly	QYBM0018S	1	★ (Iso)
В	G1-1	Cassette Lid Spring-R	QBNM003	1	*
В	G1-2	Cassette Lid Spring-L	QBNM004	1	*
С	G1-3	Cassette Lid Shaft	QKQM033	1	*
C	G1-4	Cassette Lid Shaft Spacer	QKQM038	1	*

Rank	Ref. No.	Description	Part No.	Pcs/ Price (Per Pce	.)
				Set	Remarks
С	G1-5	Stop Ring 3¢	XUC3FT	2	COMMON
A	G2	Cassette Lid Assembly	QYAM0004	1	*
A	G3	Power Switch Button	QYTM007	1	*
A	G4	Volume Knob	QYT0215	2	RS-262US,275US
C	G5	Bottom Board Assembly	QYCM0010	1	*
С	G6	Squre Washer	QWQ1115	2	RS-262US,275US
С	G7	Rubber Foot	QKA1050A	4	RS-256US,262US 280S
C	G8	Screw ⊕3×12	XSN3+12	6	COMMON (ISO
С	G9	Screw ⊕3×8	XYN3+C8RS	5	" (ISO)
C	G10	Chassis Pole	QHGM006S	1	* (ISO)
		ACCESSORIES			
A	A1	Connection Cord-G	RP8125 (QEB0060P)	2	COMMON
В	A2	AC Plug Adaptor	QJP0603S	1	" (ISO
A	A3	Cassette Tape	QFTITCJNAQZ	1	RS-275US
В	A4	Instruction Book	QQT1788	1	*
		PACKINGS			
C	P1	Inside Carton	QPNM037	1	*
C	P2	Inner Cushion-L	QPNM031	1	*
C	P3	Inner Cushion-R	QPNM032	1	*
С	P4	Dust Cover	XZB50×60A05	1	COMMON
С	P5	Accessory Box	QPW1125	1	RQ-209S RS-261US,262US

RECOMMENDED STOCK OF REPLACEMENT PARTS

D (D)	Estimated Selling Q'ty of Tape Recorder Set						
Rank of Part	Less 50	100	300	500	1,000	2,000	
A rank Parts	2	5	15	20	40	80	
B rank Parts	1	2	5	10	20	40	
C rank Parts	0	1	3	5	10	20	